

LISTING OF CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A digital watermarking device ~~to insert the~~ for inserting digital watermark information into the digital information, the digital watermarking device comprising:

a digital watermark insertion circuit ~~which inserts, to the digital information,~~ for inserting the digital watermark information into the digital information, the digital watermark information ~~of the type~~ uniquely ~~specified~~ corresponding to the type of data held by contained in said digital information.

2. (Currently Amended) A digital watermarking device as set forth in claim 1, wherein said digital watermark ~~insertion circuit inserts the digital watermark information of the type~~ uniquely ~~specified corresponding~~ corresponds to the time stamp information extracted from the visual data in the digital information and where said digital watermark insertion circuit inserts said digital watermark into the visual data corresponding to the time stamps.

3. (Currently Amended) A digital watermarking device as set forth in claim 2, further comprising:

a data separation circuit for separating ~~which separates~~ the digital information into the visual data and the audio data, said digital watermark insertion circuit inserting said digital watermark information into said visual data separated by said data separation circuit; and

a data synthesis circuit for combining ~~which synthesizes~~ the visual data and the audio data,

~~wherein said digital watermark insertion circuit inserts the digital watermark information to the visual data separated by said data separation circuit, and~~

said data synthesis circuit ~~synthesizes~~ combining the visual data containing the inserted digital watermark information and the audio data previously separated by said data separation circuit.

4. (Currently Amended) A digital watermarking device as set forth in claim 2, further comprising a time stamp detection circuit for detecting and extracting ~~which detects and extracts~~ the time stamp information from the visual data in said digital information.

5. (Currently Amended) A digital watermarking device as set forth in claim 1, further comprising:

a data separation circuit which separates the digital information into ~~the~~ visual data and ~~the~~ audio data~~[[,]]~~;

a time stamp detection circuit which detects and extracts ~~the~~ time stamp information from said visual data, said time stamp information being used for generating said unique digital watermark to be inserted into said visual data by said digital watermark insertion circuit; and

a data synthesis circuit which ~~synthesizes~~ combines the visual data containing the inserted digital watermark information and the audio data separated by the data separation circuit;

~~wherein said digital watermark insertion circuit inserts the digital watermark information of the type uniquely specified corresponding to the time stamp information extracted from the visual data into the visual data separated by said data separation circuit, and said data synthesis circuit synthesizes the visual data containing the inserted digital watermark information and the audio data separated by the data separation circuit.~~

6. (Currently Amended) A digital watermarking device to detect ~~the~~ digital watermark information from ~~the~~ digital information, said digital watermarking device comprising:

a digital watermark detection circuit for detecting ~~which detects, from the digital information, the~~ said digital watermark information contained within said digital information, said digital watermarking information of the type uniquely specified corresponding to the type of data held by contained in said digital information.

7. (Currently Amended) A digital watermarking device as set forth in claim 6, wherein said digital watermark detection circuit detects the digital watermark, said digital watermark information of the type uniquely specified corresponding corresponds to the time stamp information extracted from ~~the~~ visual data in the digital information from the visual data corresponding to the time stamps.

8. (Currently Amended) A digital watermarking device as set forth in claim 7, further comprising:

a data separation circuit ~~which separates the~~ for separating said digital information into ~~the~~ visual data and ~~the~~ audio data, said digital watermark detection circuit detects the digital watermark information contained within said visual data separated by said data separation circuit;

a display signal generation circuit ~~which prepares the~~ for preparing said display signal by synthesizing the visual data with the digital watermark information detected by said digital watermark detection circuit $[[,]]$; and

an audio data conversion circuit ~~which converts the~~ for converting audio data separated by said data separation circuit into ~~the~~ an analog signal $[[,]]$

~~wherein said digital watermark detection circuit detects the digital watermark information from the visual data separated by said data separation circuit.~~

9. (Currently Amended) A digital watermarking device as set forth in claim 7, further comprising a time stamp detection circuit ~~which detects and extracts the~~ for detecting and extracting time stamp information from the visual data in said digital information.

10. (Currently Amended) A digital watermarking device as set forth in claim 6, further comprising

a data separation circuit ~~which separates~~ for separating the digital information into the visual data and the audio data [[,]]; and

a time stamp detection circuit ~~which detects and extracts the~~ for detecting and extracting time stamp information from the visual data in said digital information, said digital watermark detection circuit detects the digital watermark information within the visual data separated by said data separation circuit and corresponding to the time stamp;

a display signal generation circuit ~~which prepares the~~ for preparing a display signal by synthesizing the visual data with the digital watermark information detected by said digital watermark detection circuit[[,]]; and

an audio data conversion circuit ~~which converts~~ for converting the audio data separated by said data separation circuit into ~~the~~ an analog signal[[,]]

~~wherein said digital watermark detection circuit detects the digital watermark information of the type uniquely specified corresponding to the time stamp information extracted from the visual data in the digital information from the visual data separated by said data separation circuit corresponding to the time stamps.~~

11. (Currently Amended) A digital watermarking device ~~to insert the~~ for inserting digital watermark information into ~~the~~ digital information comprising:

a digital watermark insertion circuit ~~which inserts the~~ for inserting said digital watermark information into said digital information, said digital watermark of the type uniquely specified corresponding to ~~the data held by said digital information to the digital information;~~ and

a digital watermark detection circuit which detects the digital watermark information ~~of the type uniquely specified corresponding to the data held by said digital information from within~~ the digital information.

12. (Currently Amended) A digital watermarking device as set forth in claim 11, wherein said digital watermark insertion circuit inserts the digital watermark information of the type uniquely specified corresponding to ~~the time stamp information extracted from the visual data in the digital information~~ into the visual data corresponding to the time stamps, said time stamp information being extracted from said visual data;

and said digital watermark detection circuit detects the digital watermark information into visual data corresponding to time stamp information, of the type said digital watermark uniquely specified corresponding to the time stamp information ~~extracted from the visual data in the digital information from the visual data corresponding to the time stamps.~~

13. (Currently Amended) A digital watermarking device as set forth in claim 11, further comprising

a data separation circuit ~~which separates~~ for separating the digital information into the visual data and the audio data[[,]];

a time stamp detection circuit ~~which detects and extracts the~~ for detecting and extracting time stamp information from said visual data, said digital watermark insertion circuit inserts said digital watermark information into said visual data, said digital watermark uniquely corresponding to the time stamp information;

~~a data synthesis circuit which synthesizes the visual data and the audio data,~~

a display signal generation circuit ~~which prepares the~~ for preparing a display signal by synthesizing the visual data with the digital watermark information detected by said digital watermark detection circuit[[,]]; and

an audio data conversion circuit ~~which converts~~ for converting the audio data separated by said data separation circuit into ~~the~~ an analog signal,

~~wherein said digital watermark insertion circuit inserts, to the visual data separated by said data separation circuit, the digital watermark information of the type uniquely specified corresponding to the time stamp information extracted from the visual data, said data synthesis circuit synthesizes the visual data containing the inserted digital watermark information and the audio data separated by the data separation circuit, and said digital watermark detection circuit detects[[,]] from said digital watermark within the visual data separated by said data separation circuit corresponding to the time stamps[[,]] the digital watermark information of the type uniquely specified corresponding to the time stamp information extracted from the visual data in the digital information.~~

14. (Currently Amended) A digital watermark insertion method ~~to insert the~~ for inserting digital watermark information into ~~the~~ digital information, ~~wherein~~ the method comprising:

inserting the digital watermark information into the digital information, the digital watermark of the type uniquely specified corresponding to the data held by the digital information ~~to the digital information.~~

15. (Currently Amended) A digital watermark insertion method as set forth in claim 14, ~~wherein~~ further comprising:

extracting ~~the~~ time stamp information corresponding to ~~the~~ visual data in the digital information ~~when the~~ prior to inserting said digital watermark information ~~of the type uniquely specified corresponding to the data held by the digital, information is inserted into the digital information, and inserting the digital watermark information of the type uniquely specified corresponding~~ corresponds to the time stamp information and is inserted into the visual data corresponding to the time stamp[[s]] information.

16. (Currently Amended) A digital watermark detection method ~~to for detect~~ detecting the digital watermark information from the digital information, ~~wherein~~ said method comprising:

detecting the digital watermark information within the digital information, said digital watermark of the type uniquely specified corresponding to ~~the data contained in held by the~~ digital information, ~~from the digital information~~

17. (Currently Amended) A digital information detection method as set forth in claim 16, wherein, when the digital watermark information ~~of the type uniquely specified corresponding to the data held by the digital information~~ is detected ~~from the digital information,~~ said digital information detection method further comprises:

extracting the time stamp information corresponding to ~~the~~ visual data in the digital information; and

detecting the digital watermark information within the visual data corresponding to the time stamp information, the digital watermark of the type uniquely specified corresponding to the time stamp information ~~from the visual data corresponding to the time stamps.~~

18. (Currently Amended) A computer readable ~~memory~~ medium for storing ~~to store the~~ a digital watermark insertion program ~~which, said program~~ executes the digital watermark insertion processing ~~to insert~~ for inserting the digital watermark information into the digital information by controlling the computer, ~~wherein said digital watermark insertion program comprising the functions of: executing the processing to insert, to the digital information,~~ the digital watermark information ~~of the type uniquely specified~~ corresponding to ~~the data held by~~ contained in the digital information.

19. (Currently Amended) A computer readable ~~memory~~ medium ~~to store the digital watermark insertion program~~ as set forth in claim 18, wherein said digital watermark insertion program ~~extracting~~ extracts the time stamp information corresponding to ~~the~~ visual data in the digital information ~~when~~ prior to inserting the digital watermark information ~~of the type uniquely specified corresponding to the data held by the digital information~~ into the digital information, and ~~inserting~~ inserts the digital watermark information ~~of the type uniquely specified corresponding to the time stamp information~~ into the visual data corresponding to the time stamps.

20. (Currently Amended) A computer readable ~~memory~~ medium for storing ~~to store the~~ a digital watermark detection program ~~which executes the digital watermark detection processing to detect the~~ for detecting digital watermark information ~~from~~ contained in the digital information ~~by controlling the computer, wherein said digital watermark detection program comprising~~ comprises the functions function of:

~~executing the processing to detect, from the digital information, a detection process for~~
detecting the digital watermark information in the digital information, said digital watermark information of the type uniquely specified corresponding to the data ~~held by~~ contained in the digital information.

21. (Currently Amended) A computer readable ~~memory~~ medium ~~to store the digital watermark detection program~~ as set forth in claim 20, wherein, when the digital watermark information is detected in the digital information, said digital watermark detection program, ~~when the digital watermark information of the type uniquely specified corresponding to the data held by the digital information is detected from in the digital information, extracting~~ extracts the time stamp information corresponding to ~~the~~ visual data in the digital information, said ~~and detecting the~~ digital watermark information ~~of the type uniquely specified~~ corresponding to the time stamp information ~~from the visual data corresponding to the time stamps.~~

22. (Currently Amended) A digital watermarking device ~~to insert the digital watermark information into the digital information~~ comprising:

a digital watermark insertion means for inserting~~[[,]]~~ to the digital watermark information into digital information, the digital watermark information ~~of the type uniquely specified~~ corresponding to ~~the data held by~~ contained in said digital information.

23. (Currently Amended) A digital watermarking device as set forth in claim 22, wherein said digital watermark insertion means inserts the digital watermark information into visual data contained in the digital information, said digital watermark information of the type uniquely specified corresponding to the time stamp information extracted from the visual data ~~in the digital information into the visual data, and said visual data~~ corresponding to the time stamps information.

24. (Currently Amended) A digital watermarking device as set forth in claim 23, further comprising:

a data separation means for separating the digital information into ~~the~~ visual data and ~~the~~ audio data, and

a data synthesis means for synthesizing the visual data and the audio data,

wherein said digital watermark insertion means inserts the digital watermark information into the visual data ~~separated by said data separation means~~, and said data synthesis means synthesizes the visual data containing the inserted digital watermark information and the audio data ~~separated by said data separation means.~~

25. (Currently Amended) A digital watermarking device as set forth in claim 23, further comprising a time stamp detection means for detecting and extracting ~~the~~ time stamp information from the visual data in said digital information.

26. (Currently Amended) A digital watermarking device as set forth in claim 22, further comprising:

a data separation means for separating the digital information into ~~the~~ visual data and ~~the~~ audio data[[,]]; and

a time stamp detection means for detecting and extracting ~~the~~ time stamp information from said visual data[[,]]; and

a data synthesis means for synthesizing the visual data and the audio data[[,]]; and

wherein said digital watermark insertion means inserts the digital watermark information ~~of the type uniquely specified~~ corresponding to the time stamp information ~~extracted from the visual data~~ into the visual data ~~separated by said data separation means~~, and said data synthesis means synthesizes the visual data containing the inserted digital watermark information and the audio data ~~separated by the data separation means~~.

27. (Currently Amended) A digital watermarking device to detect ~~the~~ digital watermark information ~~from the~~ contained in digital information, said device comprising:

a digital watermark detection means for detecting, ~~from the digital information~~, the digital watermark information, said digital watermark information of the type uniquely specified corresponding to ~~the data held by~~ contained in said digital information.

28. (Currently Amended) A digital watermarking device as set forth in claim 27, wherein said digital watermark ~~detection means detects the digital watermark~~ information ~~of the type uniquely specified corresponding~~ corresponds to the time stamp information extracted from the visual data contained in the digital information ~~from the visual data corresponding to the time stamps~~.

29. (Currently Amended) A digital watermarking device as set forth in claim 28, further comprising

a data separation means for separating the digital information into the visual data and the audio data, said digital watermark detection means detects the digital watermark information from the visual data separated by said data separation means;

a display signal generation means for preparing the display signal by synthesizing the visual data with the digital watermark information detected by said digital watermark detection means[[,]]; and

an audio data conversion means for converting the audio data separated by said data separation means into the analog signal[[,]]

~~wherein said digital watermark detection means detects the digital watermark information from the visual data separated by said data separation means.~~

30. (Currently Amended) A digital watermarking device as set forth in claim 28, further comprising a time stamp detection means for detecting and extracting ~~the~~ time stamp information from the visual data in said digital information.

31. (Currently Amended) A digital watermarking device as set forth in claim 27, further comprising

a data separation means for separating the digital information into the visual data and the audio data[[,]];

a time stamp detection means for detecting and extracting the time stamp information from the visual data in said digital information[[,]];

a display signal generation means for preparing the display signal by synthesizing the visual data with the digital watermark information detected by said digital watermark detection means[[,]]; and

an audio data conversion means for converting the audio data separated by said data separation means into the analog signal,

wherein said digital watermark detection means detects the digital watermark information ~~of the type uniquely specified corresponding to the time stamp information extracted from the visual data in the digital information~~ from the visual data separated by said data separation means ~~corresponding to the time stamps.~~

32. (Currently Amended) A digital watermarking device ~~to insert the~~ for inserting digital watermark information into ~~the~~ digital information comprising:

a digital watermark insertion means for inserting the digital watermark information into the digital information, said digital watermark information of the type uniquely specified corresponding to the data held by contained in said digital information to the digital information; and

a digital watermark detection means for detecting the digital watermark information ~~of the type uniquely specified corresponding to the data held by said digital information from~~ in the digital information.

33. (Currently Amended) A digital watermarking device as set forth in claim 32, wherein said digital watermark ~~insertion means inserts the digital watermark information of the type uniquely specified corresponding~~ corresponds to the time stamp information extracted from the visual data contained in the digital information, said digital watermark information being inserted into the visual data corresponding to the time stamp information by said digital watermark insertion means; stamps and

said digital watermark detection means detects the digital watermark information ~~of the type uniquely specified corresponding to the time stamp information extracted from the visual data in the digital information from~~ in the visual data corresponding to the time stamp information stamps.

34. (Currently Amended) A digital watermarking device as set forth in claim 32, further comprising

a data separation means for separating the digital information into the visual data and the audio data[[,]];

a time stamp detection means for detecting and extracting the time stamp information from said visual data, said digital watermark information uniquely corresponding to said time stamp information;

a data synthesis means for synthesizing the visual data and the audio data, said visual data containing digital watermark information inserted by said digital watermark insertion means;

a display signal generation means for preparing the display signal by synthesizing the visual data with the digital watermark information ~~detected by said digital watermark detection means;~~ and

an audio data conversion means for converting the audio data ~~separated by said data separation means~~ into the an analog signal[[,]]

~~wherein said digital watermark insertion means inserts, to the visual data separated by said data separation means, the digital watermark information of the type uniquely specified corresponding to the time stamp information extracted from the visual data, said data synthesis means synthesizes the visual data containing the inserted digital watermark information and the audio data separated by the data separation means, and said digital watermark detection means detects, from the visual data separated by said data separation means corresponding to the time stamps, the digital watermark information of the type uniquely specified corresponding to the time stamp information extracted from the visual data in the digital information.~~